Sub-regional Capacity Building Workshop
Role of Asian Highway Network in Enhancing Road Transport Connectivity among BBIN Countries

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Ministry of Road Transport and Bridges
Government of the People’s Republic of Bangladesh
Contents

• Country Profile
• Overview of Transport Sector
• Asian Highway and Bangladesh
  • BBIN Routes
• Environmentally Sustainable Transport Infrastructure
• Key Challenges
COUNTRY PROFILE: BANGLADESH

• Father of the Nation: Bangabandhu Sheikh Mujibur Rahman

• Became an independent sovereign state on 16th December 1971

• Area: 147,570 sq. km

• Population: 169.83 million, in 2022, Population Density: 1119 per sq. km

• GDP at Constant Market Price =460.22 billion US$ (2022-23)

• GDP Growth Rate =7.10 in 2022

• Per Capita Income=2765 US$ (2022-23)

• Achieved the status of “Lower Middle Income Country” in 2015 from LDC by the strong political leadership of the present Honorable Prime Minister Sheikh Hasina

• To transform an upper middle income country by 2031 and high income country by 2041

Source: Statistical Yearbook Bangladesh 2022, Bangladesh Economic Review 2023, Bangladesh Bureau of Statistics (BBS)
Overview of Transport Sector

- Share of Land Transport Sector to GDP: 6.49% (2021-22) at constant price
- Annual Growth Rate of GDP by Land Transport Sector: 6.08% (2021-22) (Base: 2015-16=100)
- ADP Allocation in 2022-2023 for Transport Sector: 70,696 Crore BDT (28.73%)
- Total Road Network in Bangladesh: 3,83,069 kilometer (Highways & Rural Roads)
- Total Number of Registered Motor Vehicle in Bangladesh: 5.89 million (up to October, 2023)
- No. of Ports:
  1. Land Port: 24 (17 in operation)
  2. Sea Port: 3 (Chattogram, Mongla and Payra)
  3. Deep Sea port: 1 (Matarbari)
  4. Inland River port: 29
  5. Airport: 3 International (Dhaka, Chattogram & Sylhet)
  6. Domestic Airport: 8

Source: Bangladesh Bureau of Statistics (BBS), Planning Commission & Bangladesh Road Transport Authority(BRTA)
Overview of Transport Sector

• Total Arterial Road: 22,476 kilometer
  - National Highway: 3,991 Km
  - Regional Highway: 4,898 Km
  - Zilla Highway: 13,587 Km

• Number of Bridges: 4,404, Culverts: 15,084

• Highways upgraded 4 or More lane: 854 km

• Highways up-gradation is going on 4 or more lanes: 574 km

• Road Network Condition from Fair to Good is 89.65% in 2022-23
Connectivity corridors through Bangladesh

Asian Highway (AH)
SAARC Highway Corridor (SHC)
SASEC Road Corridor (SHC)
BIMSTEC Road Corridor (BRC)
BCIM Route (BCIM)
BBIN
Asian Highway and Bangladesh

**Intergovernmental Agreement on AH Network**

- US ESCAP adopted the agreement on 18 November 2003

**Bangladesh’s involvement in AH**

- Bangladesh signed the Instrument of Accession in 2009
AH-1 : Tokyo, Japan to Kapikula, Turkey

AH1 Length: 20,551 km
AH1 crosses 14 countries
AH-2: Denpasar, Indonesia to Khosravi, Iran

AH2 Length: 13,177 km
AH2 crosses 10 countries
AH-41: Teknaf to Mongla

AH41 Length: 754 km
AH41 remains within Bangladesh
Asian Highway 1

Benapole

Tamabil

53 km

Sylhet

39 km

Sherpur

45 km

Mirpur

61 km

Sarail

47 km

Nashingdi

38 km

Katchpur

10 km

Dhaka (S)

Charjanajat

29 km

Bhanga

37 km

Bhatiapara

3 km

Kalna FG

24 km

Narail

32 km

Jessore

38 km

Benapole

Total 491 km
Asian Highway 1

- Completed Project
  - Dhaka (Jatrabari) Katchpur upgraded to 8 Lane (8 km);
  - Upgraded Dhaka (South)-Mawa-Bhanga Highway as 4 Lane Expressway (57 km);
  - Padma Bridge (6.15 km) and
  - Madhumati Bridge (Kalna Bridge) (650 meter)
Previous Missing Link in AH-1

Both Bridge are constructed

Padma Bridge

Modhumati Bridge
Asian Highway 1

- **Ongoing Project**
  - Upgrading Katchpur-Sylhet Highway to 6 Lane (231 km);
  - Upgrading Sylhet to Tamabil Highway to 6 Lane (56 km);

- **Upcoming Project**
  - Upgrading Bhanga-Bhatiapara-Narail-Jashore-Benapole Highway to 4 Lane (135 km)
Asian Highway 2

- Tamabil: 53 km
- Sylhet: 39 km
- Sherpur: 61 km
- Sarail: 47 km
- Narshingdi: 38 km
- Katchpur: 10 km
- Dhaka (N): 22 km
- Joydevpur: 20 km
- Dhaka (S): 20 km
- Kaliakoir: 50 km
- Elenga: 40 km
- Hatikamrul: 56 km
- Bogra: 34 km
- Gobindagonj: 71 km
- Ranjgpur: 67 km
- Beldanga: 76 km
- Panchagarh: 56 km

Total 512 km
Asian Highway 2

- **Completed Project**
  - Upgrading Katchpur-Dhaka Highway to 8 lane (8 km)
  - Dhaka (South)-Dhaka (North)-Joydebpur (44 km)
  - Upgrading Joydebpur-Chandra-Tangali-Elenga Highway to 4 Lane (70km) (under SASEC-I)
Asian Highway 2

- **Ongoing Project**
  - Upgrading Elenga-Hatikamrul-Bogura-Rangpur Highway to 6 lane (190 km)
  - Upgrading Dhaka (Katchpur)-Sylhet Highway to 6 Lane (231 km)
  - Upgrading Sylhet to Tamabil Highway to 6 Lane (56 km)

- **Upcoming Project**
  - Upgrading Rangpur-Panchagar-Bangladandha Highway to 4 Lane
Asian Highway AH-41

- Completed Project
  - Joydebpur-Tangali-Elenga Highway upgraded to 6 Lane (70km)
  - Constructed 2nd Katchpur, 2nd Meghna and 2nd Meghna-Gumti Bridge
  - Daudkandi-Chattogram Highway upgraded to (190km)
  - Daudkandi-Madanpur upgraded to 4 Lane (18 km)
Asian Highway AH-41

• **Ongoing Project**
  - Upgrading Elenga-Hatikamrul Highway to 6 Lane (20 km) (under SASEC-II project)
  - Upgrading Madanpur-Bhulta-Joydebpur Highway to 6 Lane (48 km) (under PPP financing)
  - Upgrading Jhenaidha-Jashore Highway to 6 Lane under WeCare program

• **Upcoming Project**
  - Upgrading Hatikamrul-Banpara-Dashuria-Paksey-Kustia-Jhenaidha (153 km) under WeCARE program
  - Chattogram Port Access Road (13km) is planned to be upgraded
  - Chattogram- Cox’s Bazar Highway is planned to be upgrade in 4 lane
## Status of on-going Projects

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Project</th>
<th>AH Road Corridor</th>
<th>Estimated Project Cost in Mill. Taka &amp; Development Partner</th>
<th>Progress &amp; Scheduled Date of Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>SASEC Dhaka-Sylhet Corridor Improvement (231 km)</td>
<td>AH1 &amp; AH2</td>
<td>• 169185.88 (PA=132446.90) • ADB</td>
<td>• Progress 6.41 % up to Sep. 2023</td>
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<td>• December 2026</td>
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<td>2.</td>
<td>Upgrading of Sylhet to Tamabil Highway to 4 including separate SMVT Lane (56 km )</td>
<td>AH1&amp; AH2</td>
<td>• 35832.46 (PA=29705.56) • AIIB</td>
<td>• Progress 0.17 % up to Sep. 2023</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>• June 2025</td>
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<tr>
<td>3.</td>
<td>SASEC Road Connectivity Project-2: Upgrading of Elenga-Hatikamrul-Rangpur (190km)</td>
<td>AH2 &amp; AH41</td>
<td>• 186796.16 (PA=116257.29) • ADB</td>
<td>• Progress 58.81 % up to Sep. 2023</td>
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<td>• December 2024</td>
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<td>4.</td>
<td>WeCare Phase-1: Improvement of Jhenaidha-Jashore Highway (48km)</td>
<td>AH41</td>
<td>• 41877.02 (PA=27056.52) • WB</td>
<td>• Progress 14.67 % up to Sep. 2023</td>
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<td>• June 2026</td>
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<td>5.</td>
<td>Support to Upgrading Joydebpur-Bhulta- Madanpur Highway (Dhaka Bypass) through PPP financing</td>
<td>AH41</td>
<td>• 6747.40 GoB Finance</td>
<td>• Progress 47.21 % up to Sep. 2023</td>
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<td></td>
<td>• June 2024</td>
</tr>
<tr>
<td>6.</td>
<td>Upgrading Joydebpur-Bhulta- Madanpur Highway (Dhaka Bypass) through PPP financing</td>
<td>AH1</td>
<td>Total =30515.00</td>
<td>• Progress 46 % up to Sep. 2023</td>
</tr>
</tbody>
</table>
BBIN Routes

• Regular and Non-Regular Passenger Transport
  ▪ Bangladesh-India : 11 Routes
  ▪ Bangladesh-India-Nepal : 2 Routes

• Personal Vehicles
  ▪ Bangladesh – India : 4 Routes
  ▪ Bangladesh – India – Nepal : Routes

• Cargo Vehicles (Proposed)
  ▪ Number of Entry and Exit Points : 7 Nos.
  ▪ Number of Routes : 13 Nos
Resilient and Environmentally Sustainable Transport:

- Proposed to reduce 3.39 million tons CO2 eq. (Mt) GHG emission by 2030 as unconditional contribution from transport sector (NDC).

- Transform at least 30% Motor Vehicle used in Road Transport Sector to Electric Motor Vehicle (MCPP).

Phase out the use of bricks by 2025 in all the construction works.
Resilient Transport Structure

Environmentally Sustainable Transport:

- Nationally Determined Contributions (NDCs) 2021
- Environment Protection Regulations 2023
- Mujib Climate Prosperity Plan up to 2030
- The Automobile Industry Development Policy 2021
- Electric Vehicle Registration and Movement Policy 2023
- Air Pollution (Control) Regulations 2022
- Road Transport Act 2018 & Road Transport Regulations 2022
- EV Charging policy 2022
- Revised Strategic Transport Plan - RSTP (2016-2035)
- Mass Rapid Transit Act 2016
- Bus Rapid Transit Act 2016
Low Carbon Transport

Initiatives by GoB to Reduce Emission from Transport:

• Introduction of CNG and LPG as alternative fuel;

• 2,73,963 number of vehicle converted to CNG. Monthly CNG Consumption: 98.54 mcm (million cubic meter)

• Emission of carbon will be reduced by 2.03 Lakh ton due to operation of MRT Line-6 in a year;

• Introducing a modern public transportation network comprising of Six MRT Lines by 2030.

• Procuring e-Buses for Dhaka Bus Rapid Transit Company Limited (DBRTC), Dhaka South City Corporation (DSCC) and Bangladesh Road Transport Corporation (BRTC);
Metrorail in Bangladesh
Resilient Transport Structure

Initiatives by GoB to Reduce Emission from Transport:

➢ Financial incentives, purchase subsidies, waiver of road tax and EV registration fee, reduction of VAT/Import Duty.

➢ Incentives to set up battery recycling industry and charging station networks.

➢ Establishment of an EV Cell in Bangladesh Road Transport Authority.

➢ Establishment of "Energy-Efficient Vehicle Manufacturing Fund" where fines and taxes collected from environment polluting vehicles will be deposited.

(The Automobile Industry Development Policy 2021)
Resilient Transport Structure

Environmentally Sustainable Transport:

- Environment Impact Assessment (EIA) is mandatory for any project;
- Introducing DIA (Disaster Impact Assessment) in Development Project;
- Separate service lane for slow moving vehicles;
- Introduction of Intelligent Transport System (ITS);
- Electronic Toll Collection (ETC) system is being introduced
Challenges:
Issues need to be addressed

Restoring missing links & upgrading sub-standard sections

- Implementation of ongoing projects in time;
- Channelize immediately pipeline projects.

Financing

- Financing will be needed for planned projects;
- Where possible, PPP options need to be explored;
- **G-to-G** options may be considered;
- Support from development partners;
Challenges: Issues need to be addressed

- **Road Geometry** to allow international traffic
  - Axle load, ECTS, Online Permit System
  - Volume of Transport
  - Harmonization of Routes

- **Harmonization** of Standards
- Fees, Charges, Insurance Claim
- Road maintenance Adjacent to Border Point
Challenges: Issues need to be addressed

- Institutional Set-up for resolving different claims
- International Operators Selection
- Stakeholders Consultation
Challenges:
Issues need to be addressed

• Integrated Software
• Stakeholders Consultation-Different Users
• Reduce Lead Time
• Rest area
• Multimodal integration
Double Decker Padma Bridge
Thank You